Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

# UTILITY **PATENT APPLICATION TRANSMITTAL**

678-1272 (P11009) Attorney Docket No. Chan-Soo HWANG, et al. First Inventor Apparatus And Method For Transmitting/... Express Mail Label No EV333229029US

(Unily for new honprovisional applications under 37 CPR 1.53(b)) Express Mail Label NO.							
APPLICATION ELEMENTS			ADD	NDECC TA		Patent Application	
See MPEP chapter 600 concerning utility patent application contents.					Alexandri	ria, VA 22313-14	50
Fee Transmittal F (Submit an original and a Applicant claims s See 37 CFR 1.27  Specification (preferred arrangemer - Descriptive title - Cross Referenc - Statement Reg - Reference to se or a computer p - Background of - Brief Summary	orm (e.g., PTO/SB/17) duplicate for fee processing) small entity status.  [Total Pages 28 ] of the invention se to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention of the Drawings (if filed) iption  Disclosure		( <i>if a</i> a. <b>[</b> b. c. <b>[</b>	CD-ROM or CD-Computer Progression Seque i. CD-ROM ii. Daper Statements ver ACCOMPANYIN Assignment Pa 37 CFR 3.73(b (when there is English Transla	R in de am (Ap ao Acid sary) dable Fance Liste M or Cerifying IG AP pers (con an assistation De am (Ap an an assistation De am (Ap an	uplicate, large opendix) Sequence S Form (CRF) sting on: CD-R (2 copie identity of ab PPLICATIO cover sheet & ment ignee)	e table or submission  es); or sove copies  ON PARTS document(s)) Power of Attorney supplicable)
5. Oath or Declaration  a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) b. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  12. Information Disclosure Statement (IDS)/PTO-1449  13. Preliminary Amendment Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/S or its equivalent. Ck. \$928.00 (filing fee)  17. Other: Ck. \$40.00 (recording fee)				503) nt(s) 5 U.S.C. 122 form PTO/SB/35 iling fee)			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) Of prior application No.:  Prior application information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
	19. CORRESP	ONDENC	E ADD	DRESS			
Customer Number or Bar C	ode Label (Insert Customer No. or At	tach bar code	label he	or v	Co	orrespondence ad	ddress below
Name	Paul J. Farrell, Esq.						
	DILWORTH & BARRESE, LL	.P					
Address	333 Earle Ovington Blvd.						
City	Uniondale	Sta	ate	New York		Zip Code	11553
Country	U.S.A	Telepho	one	(516) 228-8484		Fax	(516) 228-8516
Name (PrintlType)	Paul J Farrell		Reg	istration No. (Atto	rney/A	(gent) 33,49	94
Signature	Land and				E	Date Febr	uary 4, 2004

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed ip: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450.

Dated: February 4, 2004

PTO/SB/17 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FΕ	E TI	RAI	NSMI	TTAL
	for	FY	2004	ļ

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

(\$) 968.00 TOTAL AMOUNT OF PAYMENT

Complete if Known			
Application Number			
Filing Date	concurrent herewith		
First Named Inventor	Chan-Soo HWANG, et al.		
Examiner Name			
Art Unit			
Attorney Docket No.	678-1272 (P11009)		

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	Large Entity   Small Entity					
Deposit Account 04-1121	Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	Fee Paid				
Account Number U4-1121	1051 130 2051 65 Surcharge - late filing fee or oath					
Deposit Account Dilworth & Barrese LLP	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet					
Name The Commissioner is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification					
Charge fee(s) indicated below Credit any overpayments	s 1812 2,520 1812 2,520 For filing a request for ex parte reexamination					
Charge any additional fee(s) during the pendency of this application	ion 1804 920* 1804 920* Requesting publication of SIR prior to Examiner action					
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action					
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month					
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month					
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month					
Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)	1 1254 1,480 2254 740 Extension for reply within fourth month					
1004 770 2004 205 116164 515- 500	1255 2,010 2255 1,005 Extension for reply within fifth month					
1001 770 2001 385 Offlity lining fee 770 1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal					
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal					
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing					
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 770.00	1452 110 2452 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional					
Fee from	1501 1,330 2501 665 Utility issue fee (or reissue)					
Extra Claims below Fee Paid  Total Claims 24 -20** = 4 x 18.00 = 72.00						
Independent 4 24 1 × 86 - 86 00	1503 640 2503 320 Plant issue fee					
Claims 1-3 = 1 X 80 2 80.00  Multiple Dependent	1460 130 1460 130 Petitions to the Commissioner					
Large Entity   Small Entity	1807   50   1807   50   Processing fee under 37 CFR 1.17(q)					
Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt					
Code (\$)   Code (\$)   1202 18   2202 9 Claims in excess of 20	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40				
1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))					
1203 290 2203 145 Multiple dependent claim, if not paid	The state of the s					
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE)					
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application					
	Other fee (specify)					
SUBTOTAL (2) (\$) 158.00  **or number previously paid, if greater; For Reissues, see above	Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00	0				

SUBMITTED BY (Complete (if applicable) Registration No. Name (Print/Type) 33,494 Telephone (516) 228-8484 Signature Date February 4, 2004

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 450, Alexandria, VA 22313-1450.

Dated: February 4, 2004

Atty. Docket No. <u>678-1272 (P11009)</u>

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### UTILITY APPLICATION DATA SHEET UNDER 37 C.F.R. §1.76

_				
Sir:				
Transmitted	herewith for filing is the patent application of			
Inventor(s): Chan-Soo HWANG, Seung-Hoon NAM, Jae-Hak CHUNG and Yung-Soo KIM				
For:	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING DIFFERENTIAL STBC USING CHANNEL POWER			
Enclosed are	e:			
[X] <u>19</u>	page(s) of specification			
[X] <u>1</u>	page(s) of Abstract			
[X] <u>8</u>	page(s) of claims			
[X] <u>8</u>	sheets of drawings [X] formal [] informal			
[X] <u>2</u>	page(s) of Declaration and Power of Attorney			
ASSIGNEE NAME: SAMSUNG ELECTRONICS CO., LTD. ASSIGNEE RESIDENCE: GYEONGGI-DO, REPUBLIC OF KOREA				
	CERTIFICATION UNDER 37 C.F.R. § 1.10			
I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service				
on this date February 4, 2004, in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV333229029US addressed to: Mail Stop Patent				
Application, Commission	oner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450			
	Douglas M. Owens III			

[]	This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s).:					
	APPLICATION NO(S)	.:	FILING DATE			
[X]	Certified copy of applic	cation				
Cou	ntry	Appln. No.	<u>Filed</u>			
REP	UBLIC OF KOREA	26265/2003	APRIL 25, 2003			
from [ <b>X</b> ]	which priority under Title is enclosed. will follow.	e 35 United States Co	ode, § 119 is claimed			

# **CALCULATION OF UTILITY APPLICATION FEE**

For	Number Filed	Number Extra	Rate	Basic Fee \$770.00
TOTAL CLAIMS	24	4	x 18 =	\$ 72.00
INDEPENDENT CLAIMS	4	1	x 86 =	\$ 86.00
[] Multiple Dep. Claim	0	0	290	\$.00
		TOTAL \$928.00		

Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith §.

- [X] The amount of \$40.00 for recording the attached Assignment is enclosed as a separate check.
- [X] A Check, in the amount of **\$928.00**, to cover the filing fee is attached.
- [] Charge fee to Deposit Account No. 04-1121. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- Please charge any deficiency as well as any other fee(s), which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. <a href="Mailto:04-1121">04-1121</a>. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. <a href="Mailto:04-1121">04-1121</a> therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Respectfully submitted,

Date: February 4, 2004

Paul J. Farrell Reg. No. 33,494

Attorney for Applicant(s)

#### **DILWORTH & BARRESE, LLP**

333 Earle Ovington Blvd. Uniondale, NY 11553 Tel. No. (516) 228-8484 Fax No. (516) 228-8516

PJF/DMO/lah